

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A method for up-interpolating a Bayer mosaic image from input space to output space, said Bayer mosaic image input space comprising a plurality of four-pixel blocks, each pixel in said blocks being one of three different colors with two of said four pixels in each block being a dominant color and the other two of said four pixels being non-dominant colors, said method including the steps of:

reading a two dimensional color plane of said Bayer image for each said color;
mapping said pixels of said dominant color from said input space to said output space by:

 multiplying each coordinate of said input space by $1/\sqrt{2}$; and
 scaling coordinates of said input space to a normalized coefficient kernel by multiplying said coordinates by $1/\sqrt{2}$;

mapping said pixels of said non-dominant colors by multiplying each coordinate of said input space by $1/2$;

for each color, convolving said input space pixels with a coefficient kernel for each color; and

writing all mapped pixels to a storage location.

2. (Original) The method of claim 1 wherein said three different colors are red, green and blue.
3. (Original) The method of claim 1 or 2 wherein said dominant color is green.
4. (Original) The method of claim 1 wherein said coefficient kernel is the same for said two non-dominant colors but different for said dominant color.
5. (Previously presented) The method of claim 1 wherein said mapping step for said dominant color further includes sampling a 4x4 pixel block.

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